***SITS TESTING RESPONSIBILITIES***

I. INTRODUCTION

A. Scope

This document states the SITS testing responsibilities according to specific task and department at Point Mugu Operations.

B. Application

This procedure applies to SITS testing at Point Mugu, California.

C. Responsibilities

- Engineering Department

- Flight Test Department

- Manufacturing

- Quality Control

D. Definitions

 - A/C ‑ Aircraft

 - ENG'G ‑ Engineering

 - FLT TST ‑ Flight Test

 - MFG ‑ Manufacturing

 - MOD ‑ Modification

 - PMTC ‑ Pacific Missile Test Center

 - SITS ‑ System Integration Test Station

 - SOF ‑ Safety of Flight

 - WRA ‑ Weapon Replaceable Assemblies

II. GENERAL PROCEDURE

A. Background

The System Integration Test Stations (SITS) at Pt. Mugu California is a simulation facility used to integrate and test F‑14 aircraft systems ant operational flight software. Computer

support equipment provide aircraft environmental inputs to a mock‑up version F‑14 where flightworthy hardware and software are tested and verified. The SITS testing responsibilities

which are divided among the Engineering, Manufacturing, Flight Test and Quality Control departments are outlined in [company document]

B. Task Breakdown

- SITS Scheduling

This task is performed by the Engineering department in coordination with Navy personnel at PMTC. SITS lab time requests are submitted by the user one week in advance of planned testing along with special lab support utility requirements, if any. SITS lab schedule is generated in cooperation with PMTC where testing priorities are established. SITS lab schedules are produced weekly and distributed to all personnel.

Engineering personnel utilizes the SITS frame for testing and development at assigned time intervals unless alternate arrangements are made through the coordinator prior to the scheduled frame time.

- SITS Modification Functional Procedures

The procedures are drafted by the Engineering department if an addition or modification is made to the SITS frame. These procedures include step by step instructions that test

the operation of the modification as an individual unit as well as its impact on the total system operation.

- SITS Modification Installation and Checkout

Modification is performed by the Manufacturing department. The modification is verified as operational and as adhering to specifications by Manufacturing with the support of Engineering. Quality control witnesses a retest of the functional checkout ant verifies modification as required.

- SITS Developmental and Integration Test

Testing/troubleshooting is performed in the SITS laboratory with support equipment simulating various aircraft and environmental conditions. Engineering or flight test

develops and tests new software in SITS and verifies the operation of weapon replaceable assemblies (WRA s) and their interfaces.

- SITS Safety of Flight Tests

Testing is performed in the SITS laboratory by certified Engineering personnel on software development tapes and existing baseline tapes prior to aircraft testing. Engineering schedules the SITS frame and executes test.

- SITS Support of Aircraft Tests

This task allows communication between the aircraft either on the ground or in flight and the SITS laboratory. Flight test and engineering configure SITS to enable the communication and conduct tests from the laboratory or on the aircraft. Support equipment records data and provides necessary simulated inputs.